

K451579

# 510(K) SUMMARY

DEVICE: EC-3800TL, VIDEO COLONOSCOPE

PREPARED BY: PAUL SILVA DATE SUMMARY PREPARED: 02/04/95

## 1. SUBMITTER INFORMATION:

Pentax Precision Instrument Corporation  
30 Ramland Road  
Orangeburg, NY, 10962  
TEL: (914)-365-0700

MAR 21 1995

## 2. NAME OF DEVICE:

Trade Name: EC-3800TL, Video Colonoscope  
Classification Name: Colonoscope, Gastro- Urology (78FDF), 876.1500

## 3. PREDICATED DEVICE(S) INFORMATION:

1. FC-38LA, Fiber Colonoscope	Pentax	K822846
2. FG-36TA, Fiber Gastroscope	Pentax	K822846
3. VB-1530/ 1830, Video Bronchoscope	Pentax	K934920
4. EPM-3300, Video Processor	Pentax	K934918

## 4. DEVICE DESCRIPTION:

The EC-3800TL, Video Colonoscope, must be used with a Video Processor (a software controlled device). The endoscope has a flexible insertion tube, a control body, and umbilicus. The umbilicus provides connection to the video processor. The control body includes controls for up/ down/ left/ right angulation, air/water delivery, suction, two (2) accessory inlet ports, and suction channel selector. The device contains light carrying bundles, to illuminate the body cavity, and a charge couple device (CCD) to collect image data. The instrument contains two (2) working channels through which biopsy devices, or other devices, may be introduced (the instrument is supplied with two biopsy forceps). The Video Processor contains a 300 watt xenon lamp which provides white light that is filtered, via a Red, Green, Blue color wheel, and is focused at the connected video endoscope lightguide prong. The endoscope light carrying bundles present the color strobes to the body cavity and the CCD collects image data for each strobe of color. The video processor stores the CCD information until all three color strobes are completed and a full color frame is compiled. Image data and other screen display information are formatted and presented to the video outputs of the video processor for display.

## 5. INTENDED USE:

The EC-3800TL, Video Colonoscope, is intended to provide optical visualization of, and therapeutic access to, the Lower Gastrointestinal Tract. The Lower Gastrointestinal Tract includes, but is not restricted to, the organs; tissues; and subsystems: Large Bowel. The instrument is introduced per rectally when indications consistent with the requirement for the procedure are observed in Adult and Pediatric patient populations.

## 6. COMPARISON TO PREDICATED DEVICE(S):

The submission for substantial equivalence included EC-3800TL literature including specifications, the identification of standard set components, and identification of optional accessories, comparison tables were provided to illustrate the comparisons to the predicated devices. The submission for substantial equivalence was not based on an assessment of clinical performance data.